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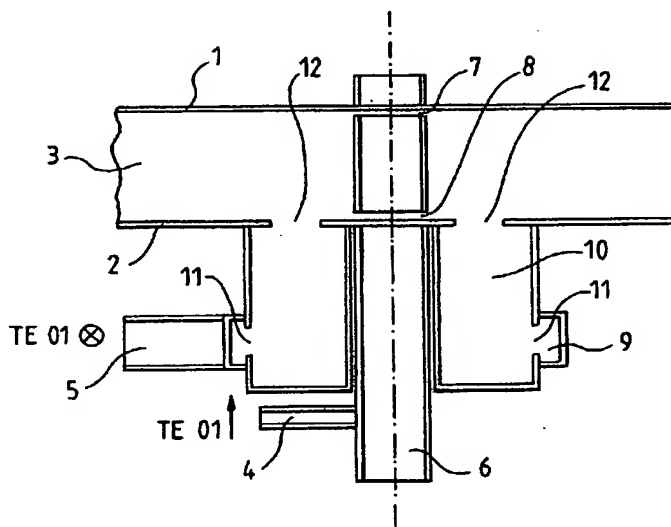
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- (74) Agent: RUELLAN-LEMONNIER, Brigitte; 46 Quai Alphonse Le Gallo, F-92648 Boulogne cedex (FR).
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(54) Title: RLSA ANTENNA HAVING TWO ORTHOGONAL LINEAR POLARISATIONS



(57) Abstract: The network antenna of the RLSA type in the form of a radial waveguide (3) has a feed structure allowing simultaneous excitation of the antenna in two orthogonal linear polarizations. The feed structure, essentially placed to the rear of the antenna, consists of a circular waveguide (6) placed at the centre of the radial waveguide and coupled to the latter by two circular slots (7, 8) for the excitation of the antenna in a first linear polarization and of a coaxial waveguide (10) surrounding the circular waveguide (6) and coupled to the radial waveguide (3) by radial slots (12), the coaxial waveguide (10) being excited by a ringshaped waveguide (9) placed coaxially on the outer periphery of the coaxial waveguide and coupled to the latter by slots (11) distributed around the inner periphery of the ring for the excitation of the antenna in a second linear polarization orthogonal to the first linear polarization.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DE 42 12 886 A (HIRSCHMANN RICHARD GMBH CO) 21 October 1993 (1993-10-21) abstract; figures 1-6 column 3, line 14 -column 5, line 68 ---	1-5
A	US 5 661 498 A (GOTO NAOHISA ET AL) 26 August 1997 (1997-08-26) abstract; figures 1,2 column 3, line 17 -column 4, line 16 ---	1-5
A	US 4 716 415 A (KELLY KENNETH C) 29 December 1987 (1987-12-29) abstract column 1, line 8-19 column 3, line 35 -column 4, line 61 column 7, line 12-47 --- -/--	1-5

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 3 063 049 A (KELLY KENNETH C) 6 November 1962 (1962-11-06) figures 1-3 column 1, line 68-72 column 3, line 23 -column 5, line 58	1-5
A	ANDO M ET AL: "A LINEARLY POLARIZED RADIAL LINE SLOT ANTENNA" IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION, IEEE INC. NEW YORK, US, vol. 36, no. 12, 1 December 1988 (1988-12-01), pages 1675-1680, XP000007860 ISSN: 0018-926X page 1675, left-hand column -page 1677, left-hand column	1-5

INTERNATIONAL SEARCH REPORT

Information on patent family members

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US 5661498	A	26-08-1997	NONE	
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